

Figure 1

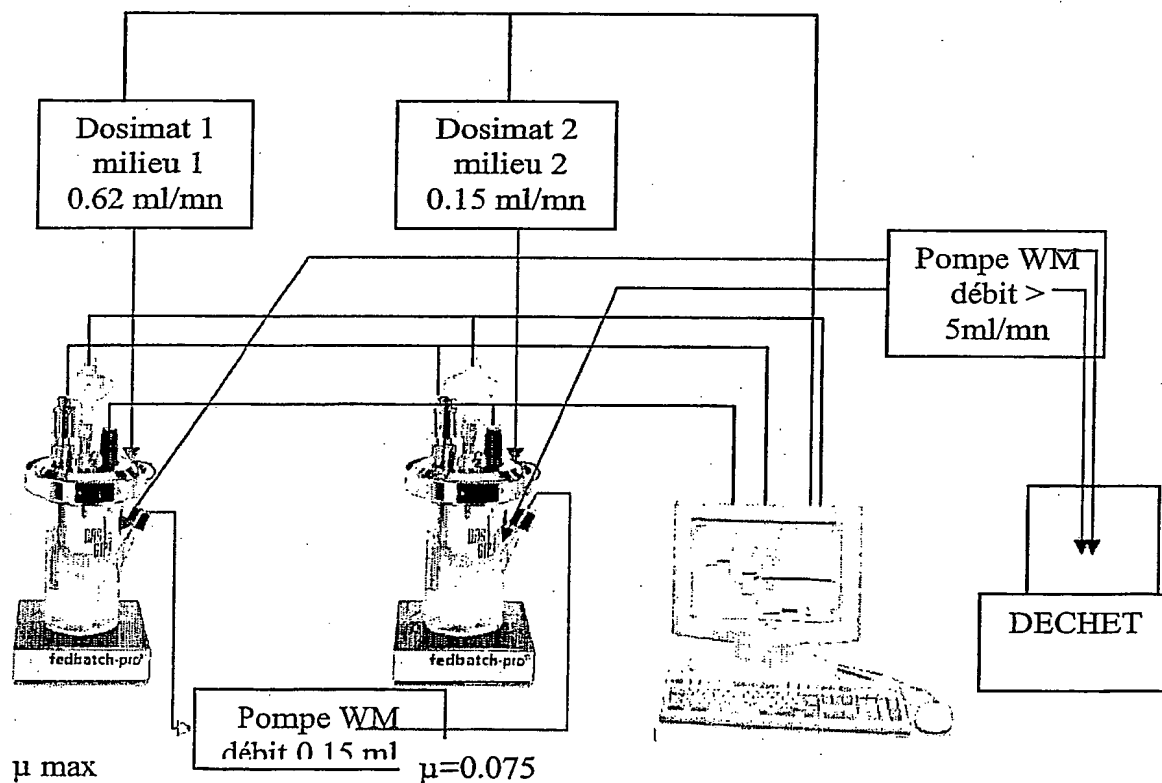


Figure 3

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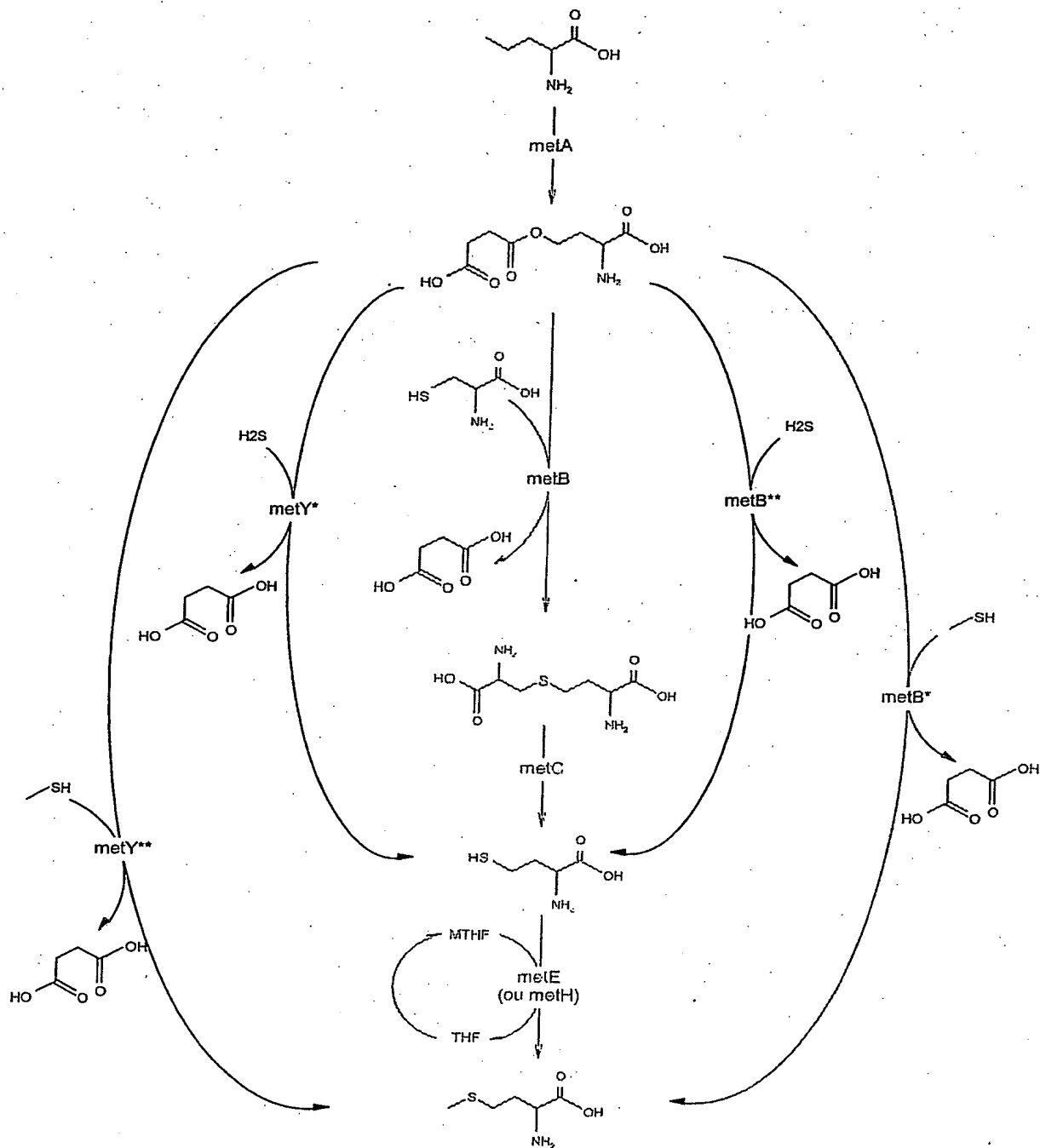


Figure 2

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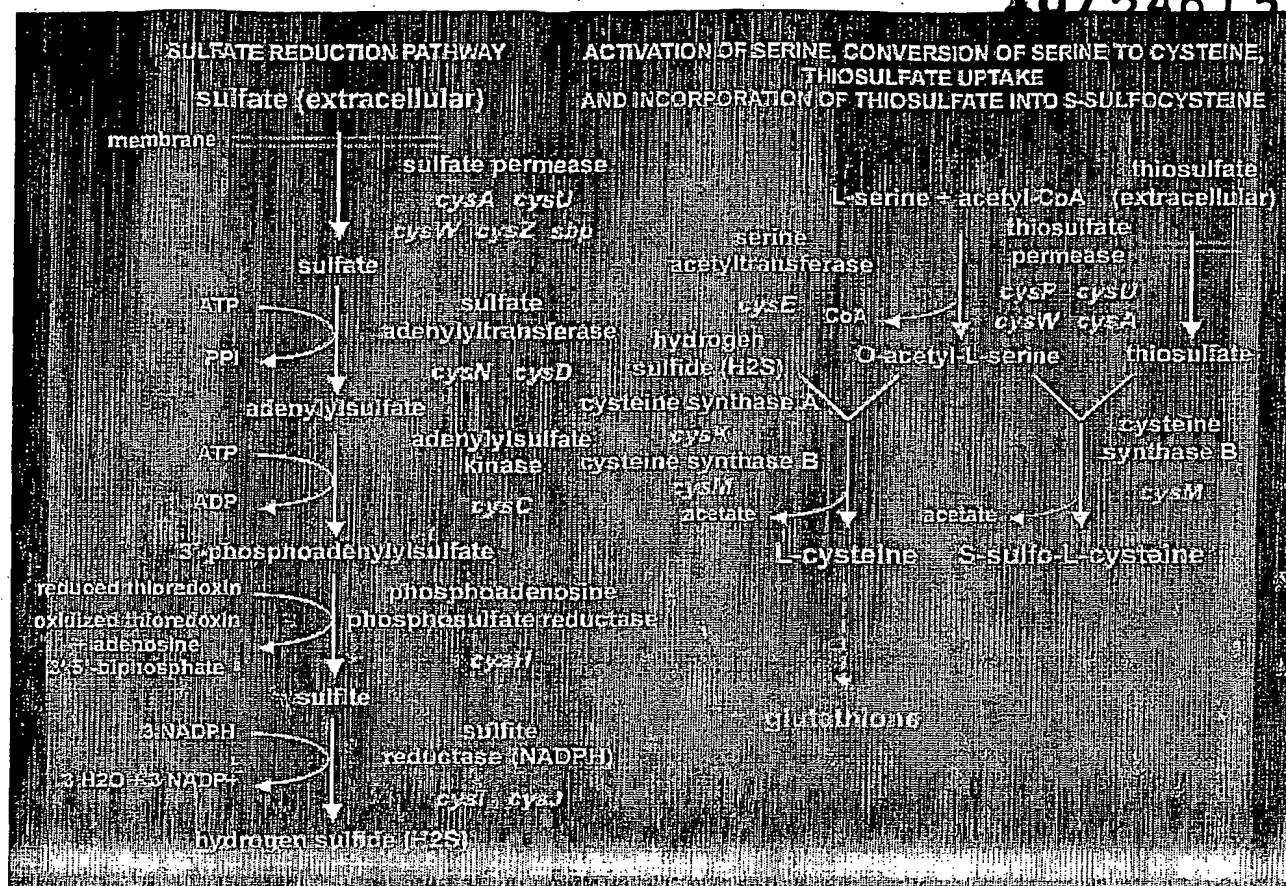


Figure 4

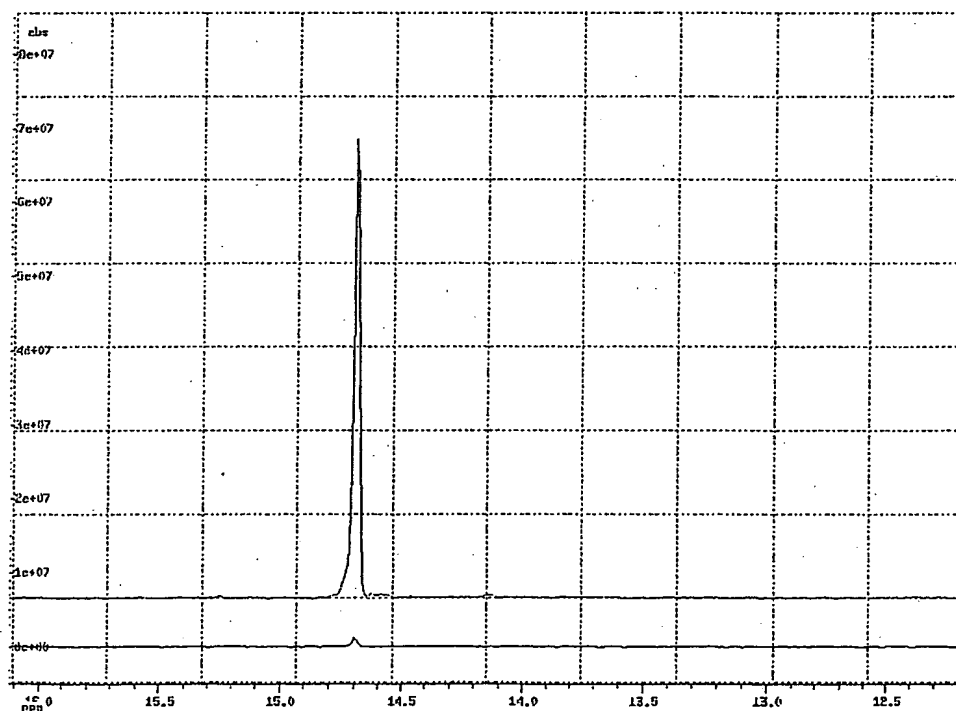


Figure 6

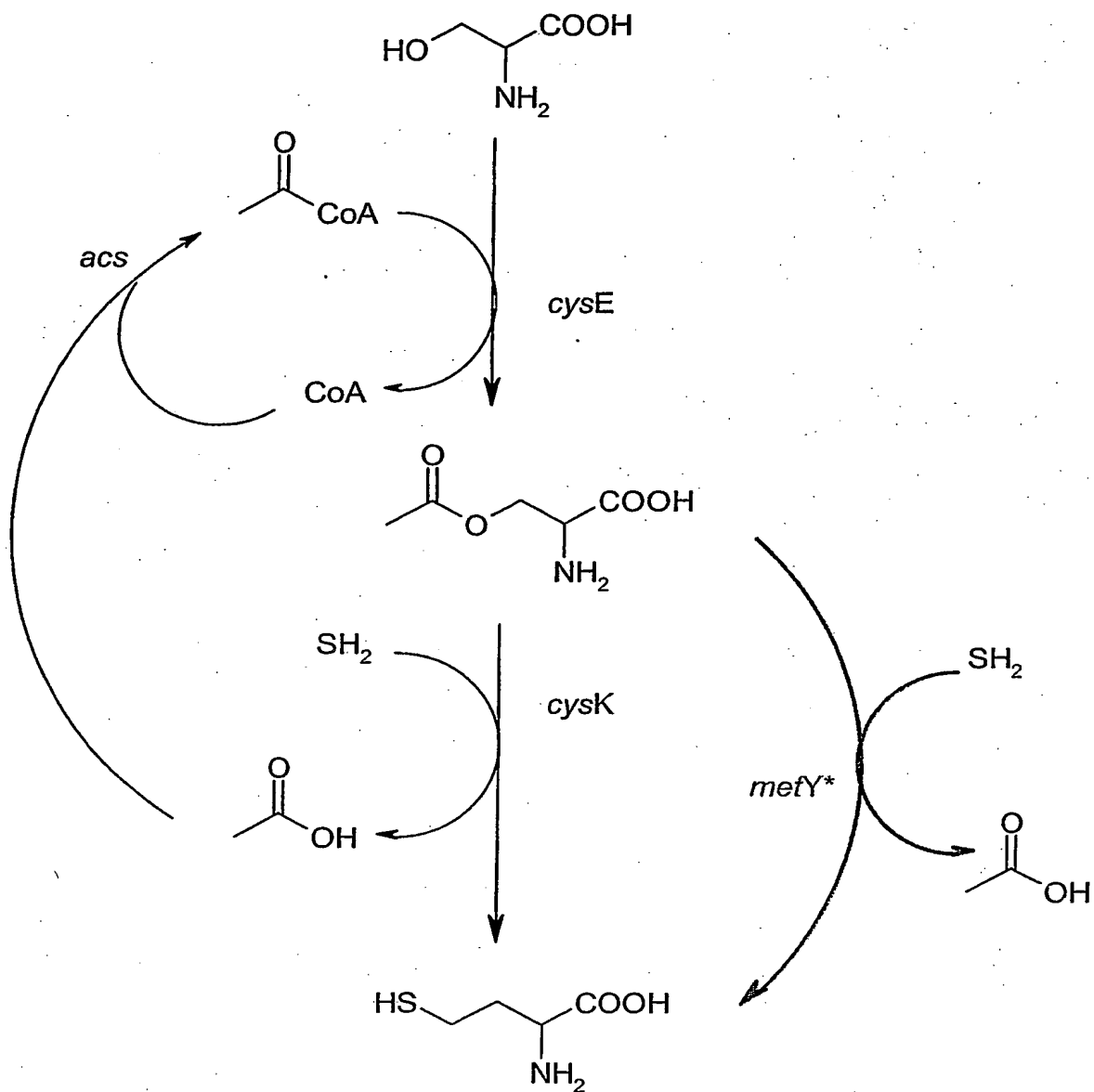


Figure 5

1

MLFPTPTIAS RCVDFIRGRA PADVCNIEV VNLVLDMSDP EARALEPLCP SISAVIMPQD GFPPAKQVMQ HSGDGYSSRR AEFCHGLFKD GLLRPDTTEL

Q3ZMW7  
NP\_373671  
P46807  
CAD30944  
NP\_696322  
AAO29646  
NP\_638204  
NP\_719586  
NP\_418374  
NP\_457953  
BAC61028  
NP\_126586  
NP\_343729  
NP\_539021  
NP\_358970  
NP\_786043  
NP\_601979  
EAA30199  
Consensus

MRMQT	KLHGGINE-	DATGAVSVP	IYQTSYRQD	AIGR-HKGYE	-----	YSR	SGNPTRFPALE	
MNKKIT	KLHGGHTT-	DDYTCGAVTTP	IYQTSYLOD	DIGDLRGYE	-----	YSR	TANPTRSVVE	
MSEDYR	GHHGITGLAT	DPATGAVNVP	IYASSTFAQD	GVGBLGRGFE	-----	YAR	TGNPMRAALE	
MEMS	DRHISOHFET	DPLTGAVVPP	IYQVSTYKQD	GVGBLGRGYE	-----	YSR	SANPTRTALE	
MSAEYN	AKFANTDIAT	DPITGAVVTP	IFATSTYFKQD	GVGLGRGGHD	-----	YSR	SINPTRTSFD	
MSIHD	VHEGTHCVYT	DTAHGAVTTP	IYLSNNSFSE	RFGHKRK-YD	-----	YTR	SANPTRDLIG	
MSFRD	PADAPCSAAT	DTAYGAVTTP	IYLSNNSFSD	GFGNKRQ-YD	-----	YTR	SGNPTRDLIG	
MTEG	KLVTROQLAT	LAVRQGIES-	IYLSNNSFSD	GHNKPRE-FD	-----	YSR	SGNPTRSILG	
MTRKQAT	LAVRSGLND-	DEQYGCVVPP	IHLSTSYNFT	GFNEPRA-HD	-----	YSR	SGNPTRSDVQ	
MTRKQAT	LAVRSGLND-	DEQYGCVVPP	IHLSTSYNFT	GFNEPRA-HD	-----	YSR	SGNPTRSDVQ	
MSTRKQAT	IAVRTGIES-	DSQYHAVVPP	IYLSNNGYFP	AGEVPRK-YD	-----	YTR	SGNPNRGLLE	
MVLFRIKNIV	EKDINLPMQD	REGEIKMKPL	HDPLYITAVF	KQVGDAYPTD	RGTELK	-----	YSR	ESNPTVRKLE
MK	DATRAVREDI	DLATGALITP	IYQTSAYHYP	EKGKYR	-----	YSR	ESNPTVLELA	
MTAPRPSKIR	LGNHLLHPET	QMLNYGVDS-	ELSEGAVNPP	VELTSTVFVK	TAEDGRDFFD	FVSGRKEPPA	GVGAGLVYVSR	
MSRELHINT	ILAAQAGIKSD	-EATGALVTP	LHFSTTYQHP	EFGRSTGFD-	-----	YTR	TKNPTRSKAE	
MT	KQAEKLHIET	RLAQAGNRSD	DEKTAISAIP	LSTSYAIRHA	GLGQSTGFD-	-----	YPR	EAQPTRCILE
MNFYPPSV	PINPAWRPPT	VTVQAGHRA-	RTGPAQMNPP	IYLSSTYVHD	SEKA	-----	YGR	DGNDGNGAFE
RGPKRYORQA	SLDAGGNQOT	IMHGHTHRAI	GETAMIQETS	RFLEERFGRN	LDSLSEVHEAK	SAIKRRIAGA	LRSADHDLG	
.....	.....g.....	d...gav..p	i.lstst&	.....f.....	.....	Ysr	notr...le	

## Figure 7

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201	Q92MW7	ELIADLEG--	GVKGFAPASG	LAGI----	HAV	F-SLLQSGDH	VLLGDDVYGG	NFRLENKVLV	KNGLSCTII-	-----	DTSDLS	QIKKAIKPT	-KALYLETSP
	NP_373671	SVTAALEN--	GKHGFAPASG	VAAL----	SAV	V-MLLDKGDH	IILNSDVYGG	TYRALDKVFT	RFGLVEDFV-	-----	DTHTD	SIVQAIRPT	-KMLFLETSP
	P46807	ASLATEE--	GVFARAFSS	MAAS----	DCA	LRVLRPGDH	VIIPDDVYGG	TVRLIDKFT	QMNVDYTPV-	-----	PLSDLD	AVRAAITSRT	-RLIWTETPT
	CAD30944	ENLAALRG--	GRRGLAFSS	LAAE----	DCL	LRITLRPGDH	WIIPDDVYGG	TVRLFATVAT	RWGVMSVA-	-----	DTSDAA	AVRAALTPKT	-KAVWVETPS
	NP_696324	EQAAVEG--	GKVALSPSS	LAAI----	DVL	LRSTIKPGDH	ILLGNDVYGG	TVRLLSKVTV	PWGVSGLDVV-	-----	NITDLK	AVETALASKH	QYQVWVETPS
	AAO29646	EALAELEG--	GAGGVVATG	IAAI----	TLV	LHALLRPGDR	LVPHNDAYG	SWRLFNALAQ	KGHFELITV-	-----	DLTDR	SLVEALALPP	-KLVLETSP
	NP_638204	EALAELEG--	GAGGVVATG	MAAI----	NLV	LNALLQPGDT	LVPHNDAYG	SWRLFNALAK	KGHFALITA-	-----	DLTDR	SLADALAQP	-KLVLETSP
	NP_719586	DALAKLEK--	GATGVVTCG	MAAI----	TLV	T-TLLGPDGL	LVPHDCVYGG	SYRLFNTLAK	KGFQKLVLV-	-----	DQDNQ	ALQAALAQP	-KMWLETSP
	NP_418374	RALAELEG--	GAGAVLTNG	MSAI----	HLV	TVFLKPGDH	LVPHDCVYGG	SYRLFDSLAT	KGCYRVRFV-	-----	DQDDEQ	ALQAALAQP	-KLVLESPP
	NP_457953	RALAELEG--	GAGAVLTNG	MSAI----	HLV	TVFLKPGDH	LVPHDCVYGG	SYRLFDSLAT	KGCYRVRFV-	-----	DQDDEQ	ALQAALAQP	-KLVLESPP
	BAC61028	SALAELEG--	GKGVVTCG	TSAL----	NLV	VSAFLPGDDL	LVPHDCVYGG	TYRLFENTRAN	KGDFKQVQV-	-----	DQDDEQ	ALQAALAQP	-KLVLESPP
	NP_126586	DKLAELEG--	SDNALAFNSG	MSAI----	STL	YFSLLRGGDK	VLSMEGYGT	TYRLFENTRAN	KGDFKQVQV-	-----	DQDDEQ	ALQAALAQP	-KLVLESPP
	NP_343729	KKIVLEEN--	AEMGIAFSS	MAAI----	STT	ALALLKPGNS	VLSMEGYGT	TYRLFENTRAN	KGDFKQVQV-	-----	DQDDEQ	ALQAALAQP	-KLVLESPP
	NP_539021	DRLAIVYG--	AESAALFSS	MSAI----	ATL	LFAFVRPGDV	ILHSQPDYGG	TYRLFENTRAN	KGDFKQVQV-	-----	DQDDEQ	ALQAALAQP	-KLVLESPP
	NP_358970	EVLAATES--	ADYALATSSG	MSAI----	VLA	F-SVFPVGSK	VLAVRDLYGG	SFRWFOVEQ	EGRFHTFV-	-----	ANTEE	ELIAELEKDV	DV-LYETPT
	NP_786043	RVLAEEMH--	GIAAYALTSG	MAAI----	QLV	F-TLFNSGDK	LIIVSDDLVGG	SYRFDLHLD	HYHLEFVAV-	-----	DQDQD	ATLAALADQ	TVALMLLETSP
	NP_601979	AAMGTLDG--	G-FAVSYSSG	LAAA----	TSI	A-DLVPTGCT	VLPKAAVYGG	VTNIFARMEA	RGLKVRVTV-	-----	DADNTE	EVIAAQAQ-	-DVMWVESIA
	EAA30199	SNVIRGIANLR	EEDIVLFCG	MNAIFAHRA	LYSTRTPGS	TPLKSVNFG	PYVDTLKILE	KFNPSGALFY	GHGSKSDLD	-----	DADNTE	EVIAAQAQ-	-DVMWVESIA
	Consensus	..la.l#g	g..a..f.sg	m..a..i	...	..ll.pgd.	.....d.eg	.....rlf.....	.....d.....	.....al.....	.....k.....	.....Etps	
301	Q92MW7	NPLKKTDLA	QCAVAKHEH	L-----	LTI	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_373671	NPLLRVTDIK	KSAREAKHG	L-----	ISV	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	P46807	NPLLSIADIT	SIGELGKHS	V-----	KVL	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	CAD30944	NPLLGITDIA	QVAVARDAG	A-----	RLV	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_696324	NPLLNITDIA	ATTEVAHKY	T-----	KVA	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	AAO29646	NPLLRITDLG	AVIEAHRVG	A-----	LTV	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_638204	NPLLRITDLR	FVIEAHRVG	A-----	LTV	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_719586	NPLLRVVDIE	AIKASHGVG	A-----	LTV	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_418374	NPLLRVVDIA	KICHLAREVG	A-----	VSU	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_457953	NPLLRVVDIA	KICHLAREVG	A-----	VSU	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	BAC61028	NPLLRVVDIA	AVCEKAKVG	A-----	LVA	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_126586	NPLTKVIDVP	EVAKCREVG	A-----	ILV	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_343729	NPLLRVIDVA	ELSKVAKEG	S-----	ILI	VDNTFATPYC	QNPLLGTDI	VAHNGTKYL	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_539021	NPLNRVIDVA	AVRVAEKTE	ARQSRPVIA	CDNTLLGPFV	QKPLDHGADL	SVLSATKYL	GHSVDVAGLV	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_358970	NPLNRVIDVA	AVRVAEKTE	ARQSRPVIA	CDNTLLGPFV	QKPLDHGADL	SVLSATKYL	GHSVDVAGLV	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_786043	NPLNRVIDVA	AVRVAEKTE	ARQSRPVIA	CDNTLLGPFV	QKPLDHGADL	SVLSATKYL	GHSVDVAGLV	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	NP_601979	NPLNRVIDVA	AVRVAEKTE	ARQSRPVIA	CDNTLLGPFV	QKPLDHGADL	SVLSATKYL	GHSVDVAGLV	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	EAA30199	NPLNRVIDVA	AVRVAEKTE	ARQSRPVIA	CDNTLLGPFV	QKPLDHGADL	SVLSATKYL	GHSVDVAGLV	GHSVDVAGLV	T-----	TNNEALA	QEFDFQNAI	GGVGLQDSW
	Consensus	NPL....Di.	.....a....g	a	..v	VDntf.tp..	q..PL.lGad.	V.hs.tky..	Ghsdv..g.v	.....	.....l.....n.....	.....G.....	.....pfd..

Figure 7 (Suite)

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Q9ZMW7	LLQRGKLTG	LRMEAQKNA	LCVAEFLEKH	PK--VERVY	PGLPHTPNHE	LAKAQMRG--	500
NP_373671	LLVRGKLTG	LRMEQINRSV	LEIKMLQAH	PA--VQQVFH	PSIESHLNH	VMAQADG--	SLGGVESLVG
P46807	LTNRGLKTLV	LRMQHNENA	ITVAEFLAGH	PS--VSALVY	PGLSHPGHE	VAARQMRG--	SLGAVESLIS
CAD30944	LVLRGKTLA	VMDRHSENA	TKVADMLSRH	AR--VTSVLY	PGLPEHPGHE	VAARQMRG--	SLGGVESLIE
NP_696324	LDLRGLKTLA	LVRRHSANA	LKVAEWLEQ	PSDVIRVMY	PGLSHPGHE	IAARQMRG--	SLGGVESLIE
AAO29646	LTNRGLKTLA	LRVHQAENA	QMAIALLEGH	GV--VKHVY	PGLASHPGHV	LAGRQKQG--	SLGGVESLIE
NP_638204	LTNRGLKTLA	LRVHQAENA	DAIAVLLEGH	AA--VNVQVY	PGLASHPGHV	LAGRQKQG--	SLGGVESLIE
NP_719586	QTLRGLKTLA	VRIKHEQNA	QRIVELLNS	PV--VSVVY	PGLADHPGHA	IAARQKQG--	SLGGVESLIE
NP_418374	LLLRGLKTLV	PRMELAQRNA	QAIVKYLQV	PL--VKKLYH	PSLPNQGHE	IAARQKQG--	SLGGVESLIE
NP_457953	LLLRGLKTLV	PRMELAQRNA	QAIVKYLQV	PL--VKKLYH	PSLPNQGHE	IAARQKQG--	SLGGVESLIE
BAC61028	MTLRGLKTLG	ARMVHEESS	QHVLYLQV	AL--VAKLYH	PSLPNQGHE	IAARQKQG--	SLGGVESLIE
NP_126586	MTLRGLKTLG	VRFRQSENA	MAIAEFKDH	PK--VVRVY	PGLKSHVDYD	IARVILKQ--	SLGGVESLIE
NP_343729	LTNRGLKTLK	IRMDVINNA	EQIAEFLEGH	PK--VVRVY	PGLKSHVDYD	IARVILKQ--	SLGGVESLIE
NP_539021	MLGRSLETG	LRMERADNSA	RAIAEFLEKH	PK--VEKLYH	LPFADERSDI	AALFKRQCTG	SLGGVESLIE
NP_358970	QLLRGLKTLA	LRMERADNSA	QEWAFLEKH	PA--VVRVY	TGR-----	-----	SLGGVESLIE
NP_786043	LLLRGLKTLA	LRVHQAENA	QELVTVLEAD	EH--VVRVY	SGR-----	-----	SLGGVESLIE
NP_601979	LLLRGLKTLA	LRVHQAENA	QELVTVLEAD	PS--VVRVY	PGLPDPQHE	KAVRVLPSG--	SLGGVESLIE
EAA30199	FMERNRDFV	ARIDRVNANA	EALCRVLQDH	PL--VKTLYY	PKYNDNRANY	EAVALPQGG--	SLGGVESLIE
Consensus	1..lrgl.tL..Rm.....na	...i...L..h	p	V..v.y	pgl..hp.h.	.a.q.g..	SLGGVESLIE
501	IPALMTHACI	PKAQEAAGI	RDGLVRLSVG	IEHEQDLLED	LDQAFKIS		
Q9ZMW7	VPALMTHASI	PADIRAKEGI	TDGLVRLSVG	IEDTEDLVDD	LKQALDITL		
NP_373671	QPSAMTHAST	TGSQLE---	V	PDDLVRILSVG	IEDVGDLLCD	LKQALN	
P46807	HPGRMTHASA	AGSALE---	V	PADLVRILSVG	IEADDDLIAD	LQQAIG	
CAD30944	VPAAMTHASV	AGTTLQ---	V	PANLVRILSVG	IEADDDLIAD	LQQAIDRI	
NP_596324	HPASMTAAM	TPEARAKAGI	SDGLLRLSVG	IEASEDLIVD	IVAGLGRAQA	VRECKV	
AAO29646	HPASMTAAM	TAERAAAGI	SDGLLRLSVG	IESAEDLLID	IRAGLARAEA	AVSAVARKQV	DA
NP_638204	VPATMTHRAM	EPQARFEAGI	KDTLLRLSVG	IEDADDIVAD	IQAGLAAVAA	CQ	
NP_719586	HAATMTHAGM	SPQARAAAGI	SETLLRLSVG	IEDGEDLIAD	LENGFRAANK	G	
NP_418374	HAATMTHAGM	SPQARAAAGI	SETLLRLSVG	IEDGEDLIAD	LENGFRAANK	G	
NP_457953	HPASMTAAM	GEALAEAGV	SHQLLRLSVG	IEDAQDLIAD	LDQAFVKAQ		
BAC61028	YPVKSAKTL	DEETREILGI	TDGLLRLSVG	LEPDELEIAD	IDNALGVVR		
NP_126586	HPATMTHRTL	SLEERKIVGI	TDGLLRLSVG	IEDVNDLIAD	LDRLSTLY		
NP_343729	HPATMTHSGV	PVDVRERIGV	LESTIRLSIG	IEHPDDLIAD	LAQALDAA		
NP_539021	YPTTQTHADI	PAEVRHSYGL	TDDLRLSIG	IEDARDLIAD	LRQALEG		
NP_358970	VPAVQTHADI	TEEOROSKGI	TANLRLSIG	IENSADLAAD	LKQALIRATK		
NP_786043	-----RRT	RRDAEVVAGV	PWTLCKVSVG	IEDVEDLWED	INASIDKVLG		
NP_601979	PVLLAHYQ-	ELDWAEQXGV	DRNLIRISVG	LEGTDELINV	FTRALKVAEE	QSQYP	
EAA30199	.....r....g!	...L..RISig	ie...#Li.D	1..gal	.....		
Consensus	.pa.mtha..	.....r....g!	...L..RISig	ie...#Li.D	1..gal	.....	

Figure 7 (fin)

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NP_785969	MTTNPENY HFETLQVHAG QTVD-ETGAR AVPIYQTSY VFKAQQAQ RFALTDAGNI YTRLTNPPTD VVDRKVAAL	100
NP_712243	MPRNY KPETIALHGG QSPDSTLSR AVPIYQTSY VFKNTEHAK LFGLQFNGI YTRIMNPTD VLEQRIAALE	
AA057279	M KLETLAIHAG FSPDPTKAV AVPIYQTSY VFDAQQAQ LFDLKVAGNI YSRIMNPTD VLEQMAALE	
NP_599886:	MP KYDINSNADOW GFETRSHAG QSDAQTAR NLPIYQSTAF VFDAEHAQ RFALBDGPV YSRYSNPTIS MFERMIELE	
BAC46370	MDLSRPVFFV TVDETWMSE VPMKSPATY RPETRLVHSG TLRQ-QFGET SEALFTQGY VNSAECEA RFKGDGPFI YSRYSNPTIS MFERMIELE	
AA057279	MTQWDA GRDSDLEGV GFDTLAVRAG QRRT-PEGEH GPMFTTSSY VFRTAADAQ RFAGEVPGNV YSRVTNPTVR SFEERIAALE	
AA057279	MTQWDA GRDSDLEGV GFDTLAVRAG QRRT-PEGEH GPMFTTSSY VFRTAADAQ RFAGEVPGNV YSRVTNPTVR SFEERIAALE	
NP_284520:	MSKUL HPQFLAIRGG KEQT-EYREH NQALFTSSS MWDNAQHAAD LFSKIKGFT YRTANPTTA APERIAALE	
Consensus	..... #tla.hag q.....e.....p.&t.s&vf...a.haa.rf.....Gni Ysr..NPT..f#.Riaale	
NP_785969	101	
NP_712243	HGTAGVTIAT GSAATTAAIL NIAQOQDEIV AANTLYGCTY DLFSTVLKKL GITHFVD-P DEPAFETAI NDHTKALYVE SIGNPGINLV DFEAIGKIAH	200
AA057279	GGVAAALATAS GOAETLAIL NIVEAQOEIV ASSLYGCTY NLLHYTFPKL GIKVHFVD-P SDPENFRKAV NDKTRAFYAE TLGNPKLNTL NLEAKVAH	
NP_599886:	GGVAAALATAS GMAETIAIQ TVEAGDNIV SVAKLYGCTY NLLHYTFPKL GIKVHFVD-P SDPENFRKAV NDKTRAFYAE TLGNPKLNTL NLEAKVAH	
BAC46370	GGVAAALATAS GMAETIAIQ TVEAGDNIV SVAKLYGCTY NLLHYTFPKL GIKVHFVD-P SDPENFRKAV NDKTRAFYAE TLGNPKLNTL NLEAKVAH	
AA057279	GGVAAALATAS GMAETIAIQ TVEAGDNIV SVAKLYGCTY NLLHYTFPKL GIKVHFVD-P SDPENFRKAV NDKTRAFYAE TLGNPKLNTL NLEAKVAH	
AA057279	GGVAAALATAS GMAETIAIQ TVEAGDNIV SVAKLYGCTY NLLHYTFPKL GIKVHFVD-P SDPENFRKAV NDKTRAFYAE TLGNPKLNTL NLEAKVAH	
AA057279	GGVAAALATAS GMAETIAIQ TVEAGDNIV SVAKLYGCTY NLLHYTFPKL GIKVHFVD-P SDPENFRKAV NDKTRAFYAE TLGNPKLNTL NLEAKVAH	
NP_284520:	GAERAVATST GMSAIOAAFF TFLQAGDHV SRSLSFGCTV GFNNIVTKF GIEVSHVS-P TDINEMKRAV KANTKLLFLE TPSNPLGEVA DLEALAEAH	
Consensus	gaa.ava.at GmaA.t.all ....ag#hiv .st.l&g.t. ....l.r. ....v.v.v.p. ....w.aa. ....ntk.f&.E sp.NP..#.#i.a.ae.AH	
NP_785969	201	
NP_712243	DHGLEIFVDN TFGTPLYLRP LEHGADVVH SATKFGCHG TTMGSVIVEG GQDM---RA SG-KYPDFTT PDPQNGLVF ADLGA-----AFTTK	300
AA057279	DSEVPLIDN TLSPYLVRP IEHGADVVH SLTKFLGSHG TSIGGLIVDS GFENW---G NG-KFKNTE PDPQNGLVF ADLGA-----AFTTK	
NP_599886:	RHGVLIDN TVATPVLCP FEHGADVVH SLTKFLGSHG TSIGGLIVDS GFENW---G NG-KFKNTE PDPQNGLVF ADLGA-----AFTTK	
BAC46370	RNSVPLIDN TIATAALVRP LELGADVVH SLTKFLGSHG TSIGGLIVDS GFENW---G NG-KFKNTE PDPQNGLVF ADLGA-----AFTTK	
AA057279	KGARLVVDN VFATPIWQSP LALGADVVH SATKHIDQG RCLGGLILSS E-----AFGLK	
AA057279	KGARLVVDN VFATPIWQSP LALGADVVH SATKHIDQG RCLGGLILSS E-----AFGLK	
AA057279	KGARLVVDN VFATPIWQSP LALGADVVH SATKHIDQG RCLGGLILSS E-----AFGLK	
AA057279	KGARLVVDN VFATPIWQSP LALGADVVH SATKHIDQG RCLGGLILSS E-----AFGLK	
NP_284520:	KGARLVVDN VFATPIWQSP LALGADVVH SATKHIDQG RCLGGLILSS E-----AFGLK	
Consensus	..ga.l!!DN ...tp.l...p l.hgAD!vH SatK.idgH r..GG!...s g.....af....	
NP_785969	301	
NP_712243	VRAETLRDTG ATISPFNSFL LQGLESLSL RVERHVTNR KIVAFKAKHP KVAVINYPEL EDSPIHDLAT KYFNGV-GS IFTLGLTGE AAGKALIEHL	400
AA057279	AKVQGLRDMG ASISPFNAWQ ILQGVETLPL RMRKHSNAL AVAEYLTKHP KVSWNYPGL KMDKNVSLAK KYHKDLGCA ILGFGIKGGA VEAKKFDGL	
NP_599886:	CRVQGLRDTG AALSPFNAL ILQGLESLSL RVERHVTNR KIVAFKAKHP KVAVINYPEL EDSPIHDLAT KYFNGV-GS IFTLGLTGE AAGKALIEHL	
BAC46370	HLHNFRTQG PSISPFNAWQ LKGLLETAL RMRHVTNR KIVAFKAKHP KVAVINYPEL EDSPIHDLAT KYFNGV-GS IFTLGLTGE AAGKALIEHL	
AA057279	-VVGFLRTAG PTLSPFNAL FLKGLLETAL RMRHVTNR KIVAFKAKHP KVAVINYPEL EDSPIHDLAT KYFNGV-GS IFTLGLTGE AAGKALIEHL	
AA057279	-VVGFLRTAG PTLSPFNAL FLKGLLETAL RMRHVTNR KIVAFKAKHP KVAVINYPEL EDSPIHDLAT KYFNGV-GS IFTLGLTGE AAGKALIEHL	
NP_284520:	-VAVYCNCSG LAMSPFNAL LLSGVETLPL RMEKQFDNAL KIAQWLQAP QVQVYITGL PSHQHEHLAR RQKGF--GA VVSFVKGGK DGAWRFIDAT	
Consensus	..v..lr.tg ...SpFNaw. .l.Gl#tL.l Rme.h..na. kvae.L..hp kl.v.%gl .dbpq..la. kq..gg..g. ....fevkgg. aaa.f#1	

Figure 8



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NP\_785969 401 QLFSLANVA DAKSLIHHPA STTHAQNEQ ELLAAGVTPD LIRISVGVEN ADDLIADLDQ ALAQV 467  
NP\_712243 ELFSLANVG DAKSLVIHPA STTHQQLTPE EQLSAGVTPD FVRLSVGLEN IEDILFLEE ALKKV  
AAN68137 QLVRLVNIQ DAKSLACHPA STTHRQLMDD ELEKAGVPRD MVRLSIGIEH SDDIIADLAQ ALEASRG  
NP\_599886: KLHSLNANIG DVRSLVVHPA TTTHSQSDEA GLARAGVTQS TVRLSVGIET IDDIADLEG GFAAI  
BAC46370 KLAKISNNIG DAKSLVTHPA TTTHQRLKPE DRAALGISEG FIRFSAGLEH ADDIEDLTA ALEKA  
AAO57279 RLISITANIG DTKTTTTHPS TTSHGRLLAPQ EREAGIRDS LIRVAVGLED VADLQADLAR GLAAL  
AAA83435: RMVSITNIG DTKTTIAHPA TTSHGRLLSPE DRARAGIGDS LIRVAVGLED LDDIKADMAR GLAAL  
NP\_284520. ELFSRTANIG DVRSITTHPW TTTHGRMOPE EKLAANIRPG LVRLSVGLEY VGLIDDIKQ ALAR  
Consensus .L.s..anlg Daksl...Hpa ttth.rl.pe e..aag!... .lrsvgle. .dliadl.. ala.....

Figure 8 (fin)

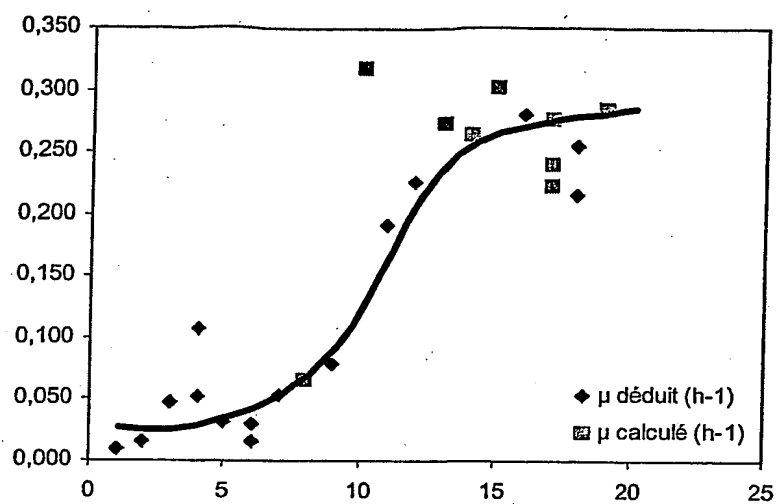


Figure 9

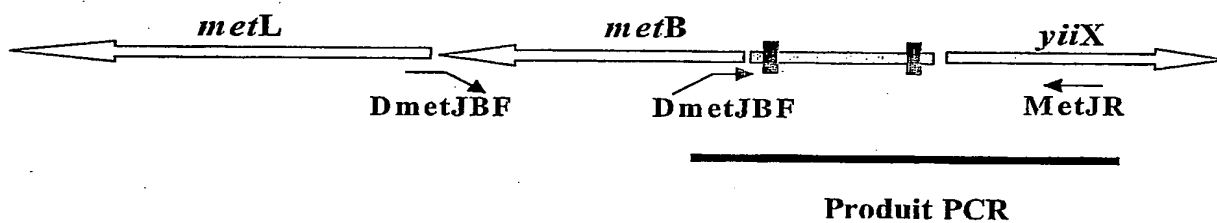


Figure 11

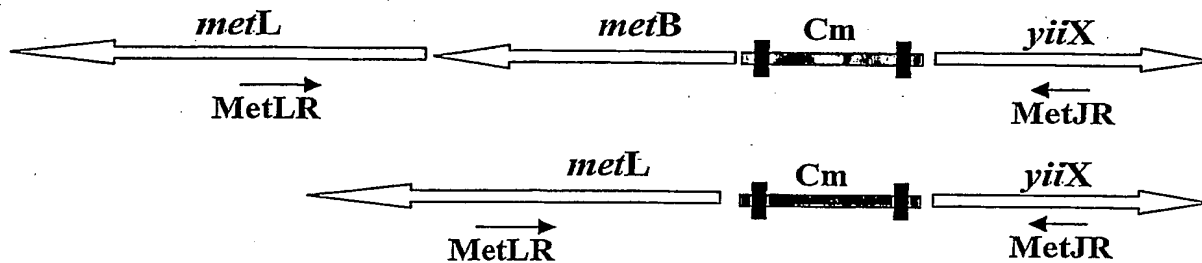
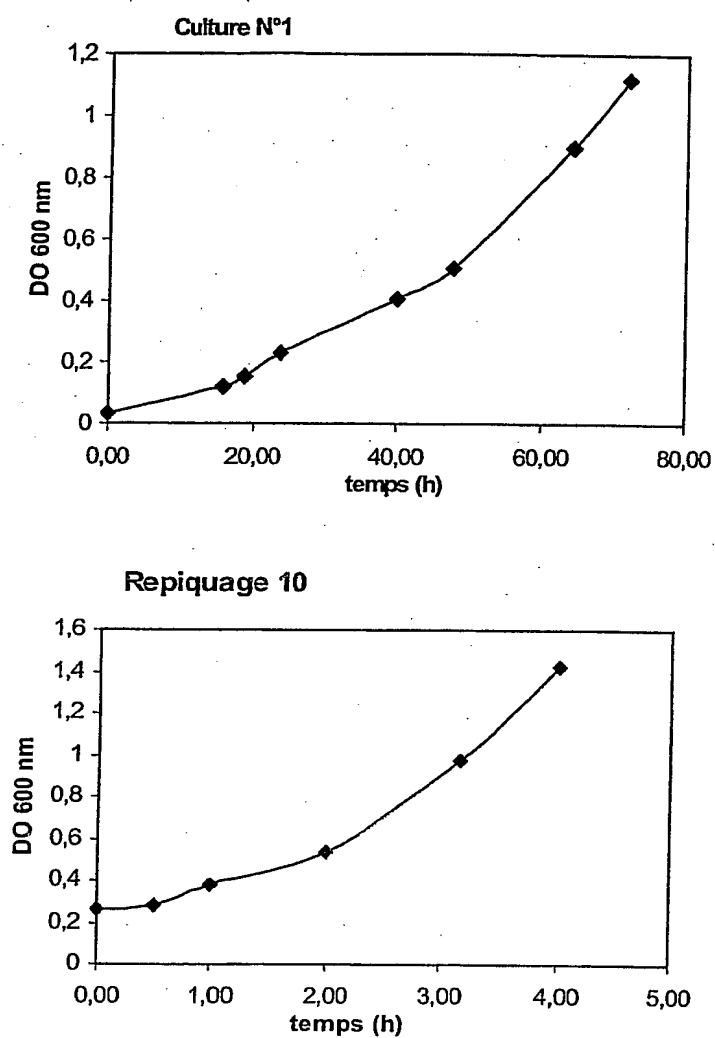
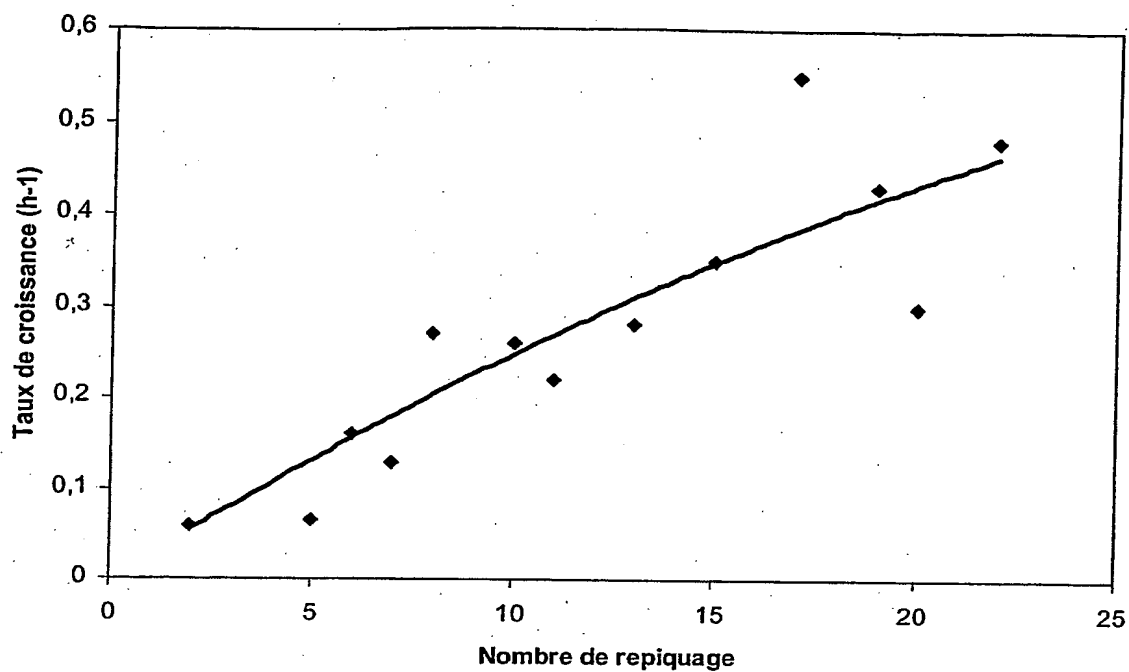


Figure 12

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**Figure 10**

**Figure 13**

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